



Fuel Spill Cleanup

Water Pollution Control Program technical bulletin

7/2003

General

This bulletin explains water pollution permits, including landfarming of contaminated soil, required for discharge of **hydrocarbon-contaminated** waters. These are most often associated with fuel spill cleanups. These permits are issued by the Missouri Department of Natural Resources' Water Pollution Control Program.

These permits require the permittee to collect contaminated water and test for pollutants. Discharges are allowed only when test results indicate that the discharge will meet permit limits.

Permits Required

Listed below are the general types of activities and corresponding permits required:

1. Discharging water from fuel-spill cleanups, including wastewater and storm water associated with underground storage tank removals, pit dewatering, equipment cleaning, rainwater contacting contaminated soil or equipment, wastewater generated during well installation and pumping and monitoring of contaminated groundwater. (General Permit #MO-G94)
2. Soil treatment, also known as landfarming of fuel-contaminated soils in an approved surface treatment cell. (General Permit #MO-R401)

This permit regulates remediation of hydrocarbon-contaminated soil in a landfarm. The permit contains specifications for landfarm size, location, construction, maximum soil contamination level, berms and liners and other aspects. Landfarms are limited to 2,500 cubic yards and must be closed within two years.

3. In-place soil washing or bioremediation of petroleum-contaminated soil and subsoil around storage tanks through shallow injection of materials or fluids into strata that are not aquifers. (General Permit #MO-R409)

Please note that the general permit only covers injection into unsaturated soils and certain perched groundwater. A geological report, signed by a professional geologist or geological engineer and notarized must be submitted with the application to establish that injection is not into an aquifer. A construction permit is not needed with this general permit.

4. Underground Injection Control (UIC) Wells. (Site Specific Permit)



A UIC permit must be obtained for any injection into an aquifer. An aquifer is a subsurface, water-bearing bed or stratum of sand, gravel or bedrock that stores or transmits water. This includes placement underground of nutrients or biological agents for remediation of soil or groundwater. Materials or fluids that are injected must have a recovery system to comply with the prohibition on disposal wells per 577.155 RSMo.

A construction permit is required to install injection wells and recovery systems. Well installations must comply with requirements of the department's Geological Survey and Resource Assessment Division and the Hazardous Waste Program's Underground Storage Tank unit.

Permit Exemptions

A water discharge permit is not required for the following:

1. Less than 500 gallons of uncontaminated storm water from Underground Storage Tank (UST) pit dewatering is land applied without direct discharge or runoff. Small volumes of water may be left in a UST pit during backfilling only if soil can adequately absorb the water.
2. All wastewater is hauled to a Publicly Owned Treatment Works. The department recommends this option whenever feasible. The facility is required to notify the department that it is accepting the water.
3. All stockpiles of contaminated soils at a UST or leaking UST site are covered with waterproof material or otherwise protected from contact with precipitation and storm water runoff, and there are no other wastewater discharges. This exemption does not apply to the pumping and disposal of excess water in the excavation.
4. Contaminated soil is hauled to a permitted landfill. In this case landfarming permit (R401) for remediating contaminated soil is not required.
5. UST release-detection monitoring devices that do not involve on-site treatment or discharge of groundwater, wastewater or storm water.
6. A construction permit is not required for activities covered under a general permit for landfarming (R401), fuel spill cleanups (G94) or in-place soil washing (R409).
7. Well injection that consists of only ambient or heated air. In this case, a UIC permit is not required.

Permit applications and fees

1. The fee for general permits is currently \$150 for five years. The fee for most construction permits is \$500. The minimum fee for a site-specific UIC permit, if required, is \$1,500 per year for flows up to 500,000 gallons per day and \$2,500 per year for higher flows.
2. Submit application form E for all general permits and forms UIC I and II for soil washing and site-specific UIC permits.

Termination of Permit

The permit may be terminated when activities covered by the permit have ceased. When permit termination is sought, submit Form H for general permits and a letter for site-specific permits. These must be sent to the department's Water Pollution Control Program. Landfarms must receive closure from the Hazardous Waste Program's LUST unit before termination of permit will be granted.

For more information

Water Pollution Permits and General Information

Missouri Department of Natural Resources
Water Pollution Control Program
Permits Section
P.O. Box 176
Jefferson City, MO 65102
(573) 751-6825
www.dnr.mo.gov/wpscd/wpcp

Underground Storage Tank or Leaking Underground Storage Tank Activities

Missouri Department of Natural Resources
Hazardous Waste Program
P.O. Box 176
Jefferson City, MO 65102
(573) 751-3176
www.dnr.mo.gov/alpd/hwp

Well Construction Standards

Missouri Department of Natural Resources
Geological Survey and Resource Assessment Division
Well Head Protection Program
P.O. Box 176
Jefferson City, MO 65102
(573) 368-2165
www.dnr.mo.gov/geology